IN THE CLAIMS

Please amend the claims as follows:

Claims 1-49 (canceled)

Claim 50 (new): An information storage medium configured to store a data structure, comprising:

a data area configured to store an MPEG transport stream containing information of I-pictures, the MPEG transport stream being recorded as a data unit; and

a management area configured to store control information used to access the data area to reproduce at least a portion of the information of I-pictures with a reproducing apparatus, wherein,

the data unit has leading information including at least one of a program association table and a program map table, wherein, within the data unit, the leading information is located at a leading side of the data unit, and information of the MPEG transport stream is located after the leading information, and

the information of the I-picture is recorded in units of the data unit.

Claim 51 (new): An information storage medium configured to store a data structure, comprising:

a data area configured to store an MPEG transport stream containing information of I-pictures, the MPEG transport stream being recorded as a data unit; and

a management area configured to store control information used to access the data area to reproduce at least a portion of the information of I-pictures with a reproducing apparatus, wherein,

the data unit has leading information including at least one of a program association table and a program map table wherein, within the data unit, the leading information is

located at a leading side of the data unit, and information of the MPEG transport stream is located after the leading information, and

the information of the MPEG transport stream includes a random access indicator configured to be supported if a special playback mode based on the I-picture is set, the information of the I-picture being recorded in units of the data unit.

Claim 52 (new): An information storage medium configured to store a data structure, comprising:

a data area configured to store an MPEG transport stream containing information of I-pictures, the MPEG transport stream being recorded as a data unit; and

a management area configured to store control information used to access the data area to reproduce at least a portion of the information of I-pictures with a reproducing apparatus, wherein,

the data unit has leading information including at least one of a program association table and a program map table wherein, within the data unit, the leading information is located at a leading side of the data unit, and information of the MPEG transport stream is located after the leading information, and

the information of the MPEG transport stream includes a unit start indicator configured to specify a start address of the information of I-pictures, the information of the I-picture being recorded in unit of the data unit.

Claim 53 (new): A method of recording information on an information storage medium including,

a data area configured to store an MPEG transport stream containing information of I-pictures, the MPEG transport stream being recorded as a data unit, and

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a management area configured to store control information used to access the data area to reproduce at least a portion of the information of I-pictures with a reproducing apparatus, wherein,

the data unit has leading information including at least one of a program association table and a program map table, wherein, within the data unit, the leading information is located at a leading side of the data unit, and information of the MPEG transport stream is located after the leading information, and

the information of the I-picture is recorded in units of the data unit,

the method comprising:

recording the information of the MPEG transport stream in the data area; and

recording the control information in the management area.

Claim 54 (new): A method of recording information on an information storage medium including,

a data area configured to store an MPEG transport stream containing information of I-pictures, the MPEG transport stream being recorded as a data unit, and

a management area configured to store control information used to access the data area to reproduce at least a portion of the information of I-pictures with a reproducing apparatus, wherein,

the data unit has leading information including at least one of a program association table and a program map table wherein, within the data unit, the leading information is located at a leading side of the data unit, and information of the MPEG transport stream is located after the leading information, and

the information of the MPEG transport stream includes a random access indicator configured to be supported if a special playback mode based on the I-picture is set, the information of the I-picture being recorded in units of the data unit,

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the method comprising:

recording the information of the MPEG transport stream in the data area; and

recording the control information in the management area.

Claim 55 (new): A method of recording information on an information storage medium including,

a data area configured to store an MPEG transport stream containing information of I-pictures, the MPEG transport stream being recorded as a data unit, and

a management area configured to store control information used to access the data area to reproduce at least a portion of the information of I-pictures with a reproducing apparatus, wherein,

the data unit has leading information including at least one of a program association table and a program map table wherein, within the data unit, the leading information is located at a leading side of the data unit, and information of the MPEG transport stream is located after the leading information, and

the information of the MPEG transport stream includes a unit start indicator configured to specify a start address of the information of I-pictures, the information of the I-picture being recorded in unit of the data unit,

the method comprising:

recording the information of the MPEG transport stream in the data area; and

recording the control information in the management area.

Claim 56 (new): A method of reproducing information from an information storage medium including,

a data area including an MPEG transport stream containing information of I-pictures, the MPEG transport stream being recorded as a data unit, and

a management area including control information used to access the data area to reproduce at least a portion of the information of I-pictures with a reproducing apparatus, wherein,

the data unit has leading information including at least one of a program association table and a program map table, wherein, within the data unit, the leading information is located at a leading side of the data unit, and information of the MPEG transport stream is located after the leading information, and

the information of the I-picture is recorded in units of the data unit,

the method comprising:

reproducing the control information from the management area; and

reproducing the information of the MPEG transport stream from the data area.

Claim 57 (new): A method of reproducing information from an information storage medium including,

a data area including an MPEG transport stream containing information of I-pictures, the MPEG transport stream being recorded as a data unit, and

a management area including control information used to access the data area to reproduce at least a portion of the information of I-pictures with a reproducing apparatus, wherein,

the data unit has leading information including at least one of a program association table and a program map table wherein, within the data unit, the leading information is located at a leading side of the data unit, and information of the MPEG transport stream is located after the leading information, and

the information of the MPEG transport stream includes a random access indicator configured to be supported if a special playback mode based on the I-picture is set, the information of the I-picture being recorded in units of the data unit,

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the method comprising:

reproducing the control information from the management area; and

reproducing the information of the MPEG transport stream from the data area.

Claim 58 (new): A method of reproducing information from an information storage

medium including,

a data area configured to store an MPEG transport stream containing information of I-

pictures, the MPEG transport stream being recorded as a data unit, and

a management area configured to store control information used to access the data

area to reproduce at least a portion of the information of I-pictures with a reproducing

apparatus, wherein,

the data unit has leading information including at least one of a program association

table and a program map table wherein, within the data unit, the leading information is

located at a leading side of the data unit, and information of the MPEG transport stream is

located after the leading information, and

the information of the MPEG transport stream includes a unit start indicator

configured to specify a start address of the information of I-pictures, the information of the I-

picture being recorded in unit of the data unit,

the method comprising:

reproducing the control information from the management area; and

reproducing the information of the MPEG transport stream from the data area.

Claim 59 (new): A reproducing apparatus configured to reproduce information from

an information storage medium including,

a data area including an MPEG transport stream containing information of I-pictures,

the MPEG transport stream being recorded as a data unit, and

a management area including control information used to access the data area to reproduce at least a portion of the information of I-pictures with the reproducing apparatus, wherein,

the data unit has leading information including at least one of a program association table and a program map table, wherein, within the data unit, the leading information is located at a leading side of the data unit, and information of the MPEG transport stream is located after the leading information, and

the information of the I-picture is recorded in units of the data unit,

the reproducing apparatus comprising:

a first reproducer configured to reproduce the control information from the management area; and

a second reproducer configured to reproduce the information of the MPEG transport stream from the data area.

Claim 60 (new): A reproducing apparatus configured to reproduce information from an information storage medium including,

a data area including an MPEG transport stream containing information of I-pictures, the MPEG transport stream being recorded as a data unit, and

a management area including control information used to access the data area to reproduce at least a portion of the information of I-pictures with the reproducing apparatus, wherein,

the data unit has leading information including at least one of a program association table and a program map table wherein, within the data unit, the leading information is located at a leading side of the data unit, and information of the MPEG transport stream is located after the leading information, and

the information of the MPEG transport stream includes a random access indicator

configured to be supported if a special playback mode based on the I-picture is set, the

information of the I-picture being recorded in units of the data unit,

the reproducing apparatus comprising:

a first reproducer configured to reproduce the control information from the

management area; and

a second reproducer configured to reproduce the information of the MPEG transport

stream from the data area.

Claim 61 (new): A reproducing apparatus configured to reproduce information from

an information storage medium including,

a data area configured to store an MPEG transport stream containing information of I-

pictures, the MPEG transport stream being recorded as a data unit, and
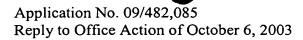
a management area configured to store control information used to access the data

area to reproduce at least a portion of the information of I-pictures with the reproducing

apparatus, wherein,

the data unit has leading information including at least one of a program association

table and a program map table wherein, within the data unit, the leading information is

located at a leading side of the data unit, and information of the MPEG transport stream is

located after the leading information, and

the information of the MPEG transport stream includes a unit start indicator

configured to specify a start address of the information of I-pictures, the information of the I-

picture being recorded in unit of the data unit,

the reproducing apparatus comprising:

a first reproducer configured to reproduce the control information from the

management area; and

a second reproducer configured to reproduce the information of the MPEG transport

stream from the data area.